

10/511141
DT04 Rec'd PCT/PTO 14 OCT 2004Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A hydraulic motor having

- a non-rotating annular outer casing-(1),
- moving eccentric means (11, 12, 8)-inside the outer casing,
- a power shaft (5)-connected to the eccentric means and rotatable thereby,
- a pressure chamber arrangement (14 to 17)-communicating with the eccentric means for moving the eccentric means and thus rotating the power shaft (5)-by means of hydraulic fluid, steam or pressurized air led into and removed from the pressure chamber arrangement, and
- a non-rotating annular inner casing (3)-inside the non-rotating annular outer casing-(1),

~~characterized in that~~wherein

- the eccentric means comprise an eccentric part (8)-formed in the power shaft-(5), a first eccentric ring (11)-between the outer casing (1)-and the inner casing-(3), and a second eccentric ring (12)-mounted with bearings around the eccentric part of the power shaft and connected fixedly and concentrically to the first eccentric ring, whereby
- the pressure chamber arrangement (14 to 17)-is located between the first eccentric ring (11) and the inner casing (3)-in such a manner that the first eccentric ring drives the power shaft (5)-through the second eccentric ring, and
- the first and second eccentric rings (11, 12)-form a substantially non-rotating entity that only performs an eccentric movement and makes the power shaft (5)-rotate by means of this eccentric movement.

2. (Currently Amended) A hydraulic motor as claimed in claim 1, ~~characterized in thatwherein~~ the pressure chamber arrangement (14 to 17) is divided into at least two equal-sized parts by means of divider means (18) arranged through the inner casing (3) and arranged to be in close contact with the inner surface of the first eccentric ring (11) and the outer surface of the second eccentric ring (12) and to move radially in relation to the inner casing guided by the eccentric rings.

3. (Currently Amended) A hydraulic motor as claimed in claim 1 or 2, ~~characterized in thatwherein~~ to balance the eccentric forces, a balancing arc (20) fastened to the power shaft (5) is arranged between the outer casing (1) and the eccentric ring (11), the arc (20) being located on the opposite side of the power shaft (5) in relation to the eccentric part (8) of the power shaft.

4. (Currently Amended) A hydraulic motor as claimed in ~~any one of the preceding claims~~ claim 1, ~~characterized in thatwherein~~ intake and outlet channels (21, 22) are arranged to the inner casing (3) for leading hydraulic fluid, steam or pressurized air to the pressure chamber arrangement (14 to 17) and away from it.

5. (Currently Amended) A hydraulic motor as claimed in claim 4, ~~characterized in thatwherein~~ a feeding apparatus (25) connected to the intake and outlet channels (21, 22) is fastened to the side of the motor to rotate hydraulic fluid, steam or pressurized air through the pressure chamber arrangement (14 to 17).

6. (Currently Amended) A hydraulic motor as claimed in claim 5, ~~characterized in~~
~~that~~wherein the feeding apparatus (25) is a mechanical rotating valve.